THINKWARE™ DASH CAM

H100

User Manual

CE RoHS

This Dashboard Camera (dash cam) is a specialized onboard device that continuously records video while the vehicle is in use.

Some features may not be available depending on installation, driving conditions, and vehicle type. The video quality might vary for each device as a result of installed firmware.

The device DOES NOT guarantee video recording of all accidents as built-in impact sensor may not be activated due to combination of user settings and the level of impact during the collision.

ACMA-020QAM103

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Before Using THINKWARE DASH CAM™ H100

▶ Under the copyright laws, this manual may not be copied, in whole or in part, without the written consent of THINKWARE.
▶ Every effort has been made to ensure this Guide's accuracy. However, we cannot guarantee the accuracy of the contents in this document as there may be technical errors, omissions, and/or futures changes.
▶ THINKWARE reserves the right to change or modify the product and the content of this manual at any time without prior notice for product improvements.
▶ Images contained in this user guide are illustrations for instructional purposes only and may differ from the actual product.
▶ Users do not reserve the right to use the product for purposes other than as specified in this user guide. According to the Personal Information Protection Act and other related regulations, the user/owner may be held liable if the video and/or conversation recorded by the device are distributed without their consent. Thus, special attention should be paid in using this product.

- The microSD memory card should be tested for errors on a regular basis and as the memory card is a consumable item, it will need to be replaced periodically.
- THINKWARE shall NOT be responsible for any problems and/or damages that may occur from not using genuine or authorized parts and accessories.
- The device and the recorded videos are intended for personal use and the recorded videos should be used for reference only.
- The device does NOT guarantee video recording of all accidents as built-in impact sensor may not be activated due to combination of user settings and the level of impact during the collision.

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

▶ Reorient or relocate the receiving antenna.
▶ Increase the separation between the equipment and receiver.
▶ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
▶ Consult the dealer or an experienced radio/TV technician for help.

FCC CAUTION: Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This Class B digital apparatus complies with Canadian ICES-003.

Caution

- This device is designed to record video while the vehicle is in operation. The quality of the video might be affected by weather conditions and the road environment such as day or night, presence of street lighting, entering/exiting tunnels, and surrounding temperatures.
- THINKWARE is NOT responsible for the loss of any recorded video during operation.
- Although designed to withstand high impact of car collision, THINKWARE does NOT guarantee recording of accidents where the impact may cause the device to be damaged.
- Keep the windshield clean for optimal video quality.
- If a foreign substance (e.g. fingerprints) is attached to the lens, this might reduce the quality of the recorded videos. Keep the lens clean all the time.
- The specified operating temperature of this product is -20°C to 65°C (-4°F to 149°F) and storage temperature is -40°C to 80°C (-40°F to 176°F). Ensure that the device is kept within these temperature ranges; otherwise, the device may not function as designed and at extreme temperatures, permanent physical damage can result which is not covered by warranty.
- Avoid placing the device under direct sunlight.
- Avoid using the Product in extreme conditions where the Product is exposed to high temperature and/or humidity.
- Only use genuine accessories and peripherals from THINKWARE or authorized THINKWARE dealer. THINKWARE does not warrant the safety and compatibility from use of peripherals from other manufacturers Use genuine parts supplied by THINKWARE.
- Do not apply excessive force when pushing the buttons on the device.
- Do not clean the Product using chemical cleaner or solvents as it may damage plastic components. Use soft, clean, dry fabric to gently wipe the Product.
- Do not place or store the device where it can be accessible by children and pets.
- Do not disassemble the Product as it will void product warranty and may also damage the product.
- Handle with care. Drop, shock, and mishandling of the Product may result in malfunction and/or damage to the device
- Do not operate this device while driving.
- Install this device in a location where it has unobstructed view of the road but does not interfere with the driver's view. Check with your local and regional laws before mounting to windshield.
- The device and/or installation parts have moving parts and may shift in extreme road conditions such as unpaved road. Check frequently to ensure the device is positioned as instructed in this guide.
- Do not operate or handle power cable with wet hands.
- Do not use a damaged power cable.
- Keep the power cable away from heaters or other hot objects.
- Check that power cable with correct connector is used and the connections are secure and firmly in place.
- Do not pull, insert, or bend the power cable using excessive force.
- Do not place heavy objects on the device and the power cable.
- Do not modify or cut the power cable.
- THINKWARE does not guarantee that devices or peripherals not authorized by THINKWARE will be compatible with its Product.
- Do not attempt to insert foreign objects into the device or power cable.
- Do not spill or spray liquid into the device as it may cause malfunction, fire, or electric shock.
- This device is intended to be used inside the vehicle only.

1. Getting Started

This unit was tested with shielded cables on the peripheral devices.
Shielded cables must be used with the unit to insure compliance.

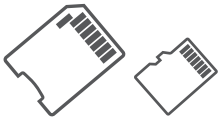
1-1. In the Package

Main Dash Cam Unit

Mount with 3M tape (1ea)

Car Charger

Adhesive Cable Holder (5ea)



MicroSD memory card with adapter (consumable)

USB MicroSD card reader

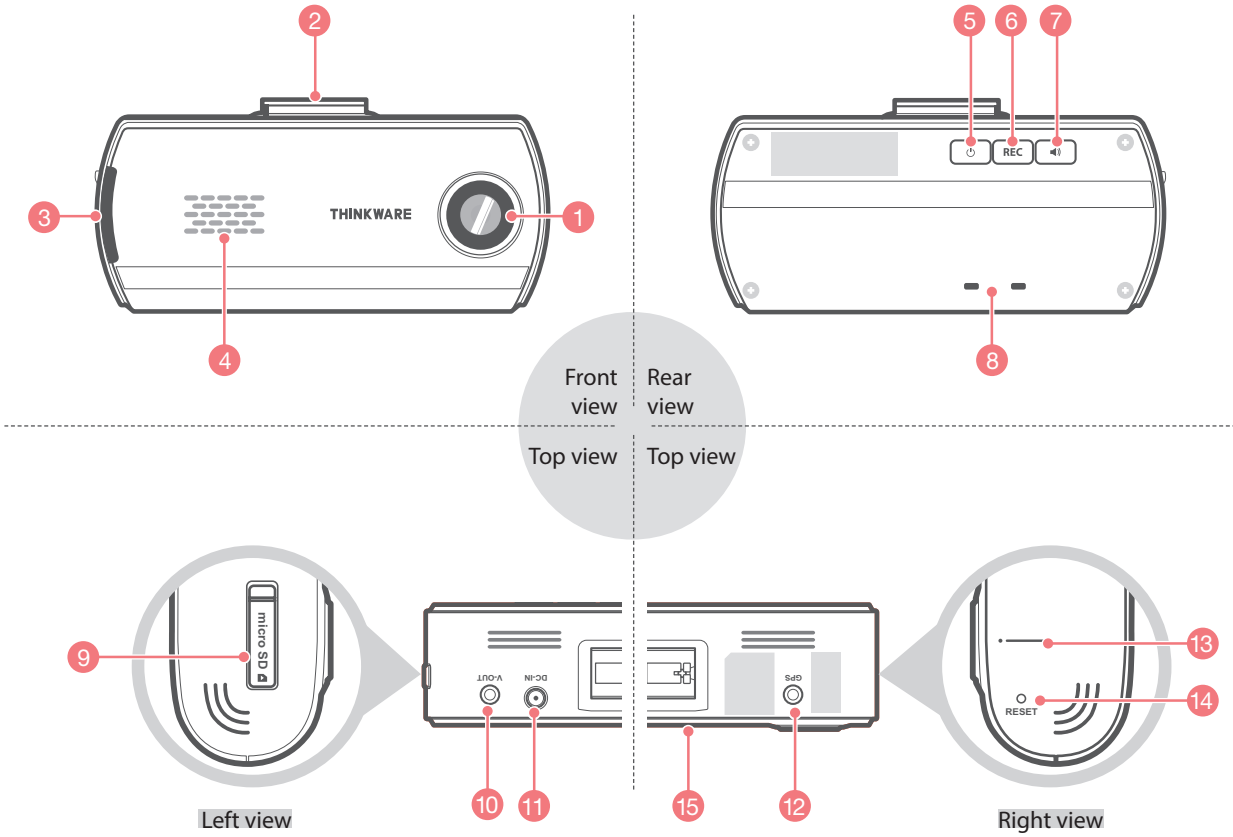
Quick Start Guide/Warranty/ User Manual (stored in the MicroSD card)

1-2. Optional Accessories

Hardwiring Cable

External GPS Receiver

1-3. Product Overview



No.	Name	Description
1	Camera Lens	Front facing camera for video recording
2	Mount Connector	Connects to the windshield mount
3	Security LED	LED light that is used to visually indicate that the vehicle is equipped with dash cam which is in operation
4	Speaker	For voice guidance and alert/notification sounds
5	Power ⏻ Button	Press and hold for 3 seconds to turn the device on/off
6	REC Button	Initiates manual recording or press and hold to capture still image
7	Voice Guidance 🔊 Button	Activates/deactivates voice guidance or press and hold to turn audio recording on/off
8	Operation Status LED	Indicates the device operating status
9	Memory Card Slot	Location for the memory card
10	V-OUT Socket	Service port
11	DC-IN	Connects to power cable
12	GPS Receiver Socket	Connects to external GPS receiver (optional accessory that requires separate purchase)
13	Level Guiding Line	Indicator line to display horizontal axis to be used as reference during installation
14	Reset	Press to force the device to reboot
15	Microphone	Records audio along with video

1-4. Inserting a Memory Card

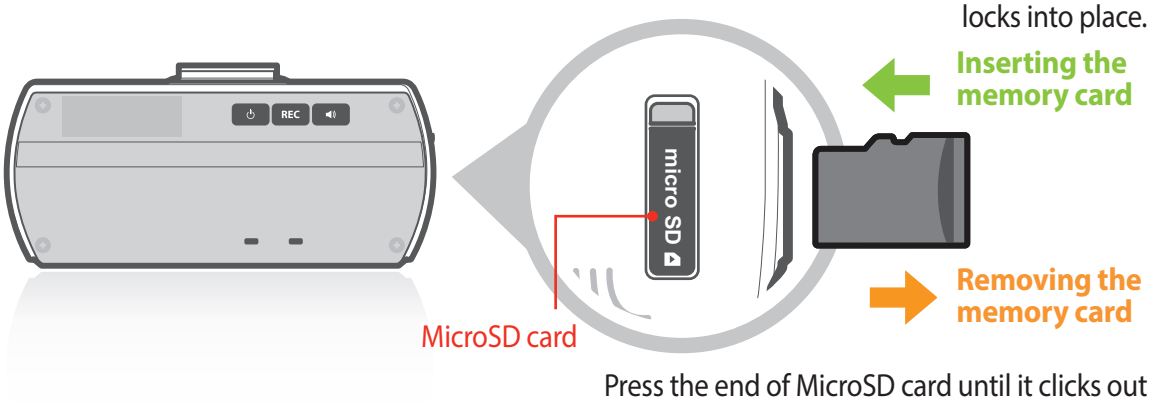
1-4-1. About Memory Cards

▶ Class 6 or higher microSD card must be used with a storage capacity of 8GB or 16GB.
It is strongly recommended that minimum 8GB memory card is used for HD recording.

▶ The microSD card should be formatted every 2 weeks to maximize the lifetime of the memory card.

1-4-2. Installing a microSD Card

Open the slot cover and insert the MicroSD card into the slot with the metal contacts facing up toward the mount connector and push until it locks into place.



Press the end of MicroSD card until it clicks out from the slot. Pull out the MicroSD card and close the slot cover.

Do not apply excessive force on the MicroSD card or attempt to insert it in the wrong direction as it may cause damage the MicroSD card and the card slot.

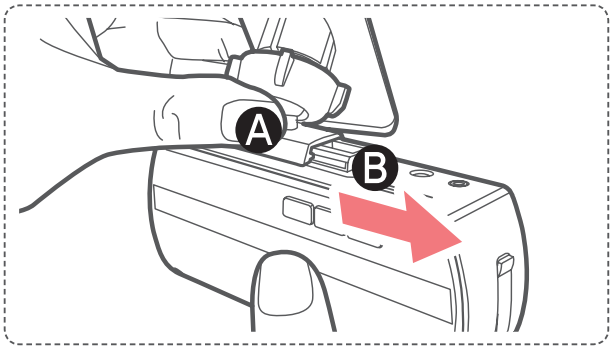
Cautions

- The microSD card should be tested for errors on a regular basis and as the memory card is a consumable item, it will need to be replaced periodically.
- THINKWARE shall NOT be responsible for any problems and/or damages that may occur from not using genuine or authorized parts and accessories. It is strongly recommended that THINKWARE memory card is used to minimize memory card error.
- Turn the device off completely before removing the microSD card to avoid damages to the memory card.
- To prevent loss of important data, frequently copy recorded video from microSD card to another storage device such as personal computer for back up.

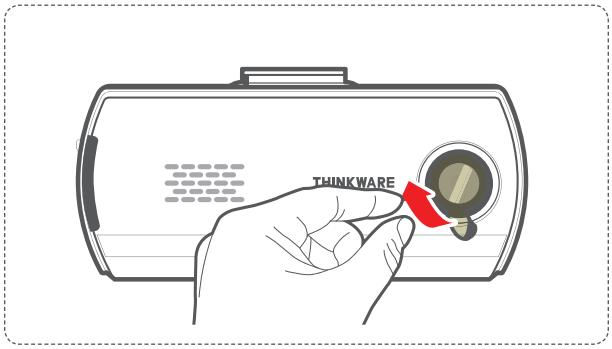
1-5. Vehicle Installation

1-5-1. Connecting the Device and the Mount

① Place the mount so it is aligned with the connector (A), and push it toward (B) until it clicks into place.

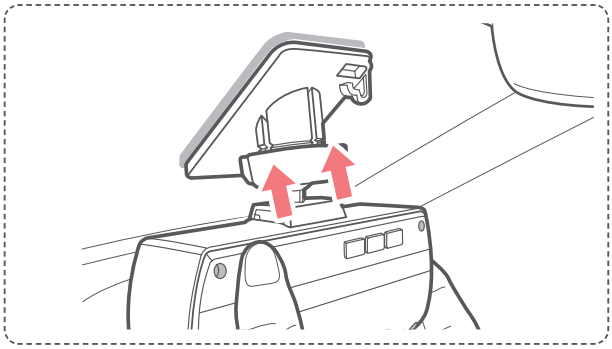


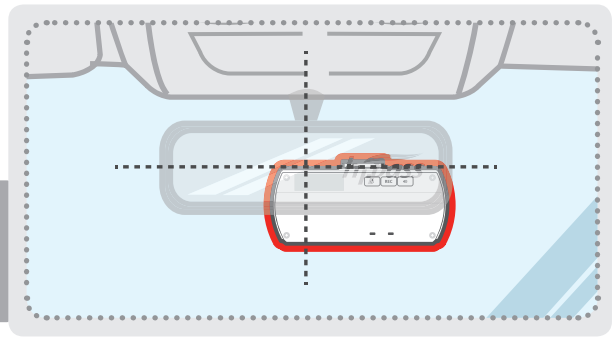
② Remove the protective film from the camera lens.



1-5-2. Installing the Device

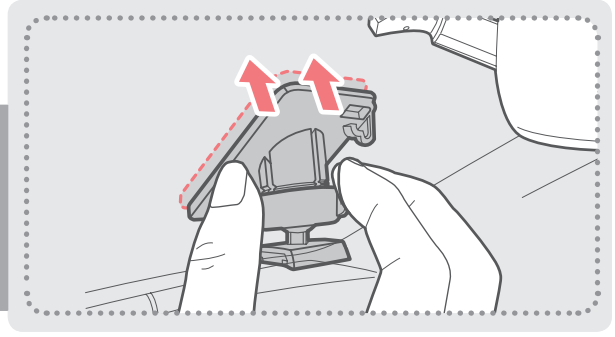
① Clean the area on the windshield where the dash cam will be installed.
② With dash cam main unit still attached to the mount, remove the protective tape from the back of the mount.
③ Attach the adhesive side of the mount on the windshield where it has unobstructed view of the road but does not interfere with the driver's view.





TIP

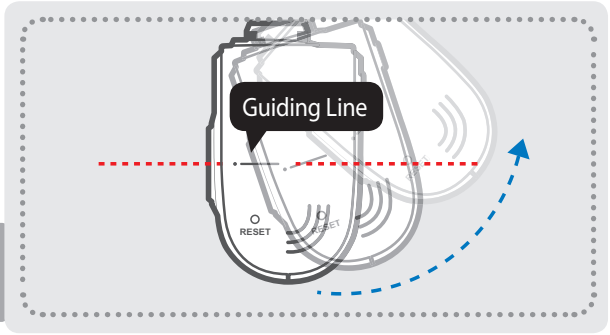
The camera is located on the left side of the main unit so install the dash cam on the right side of the center behind the rearview mirror.



TIP

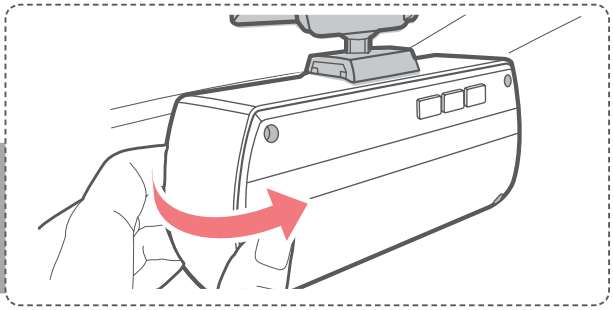
To ensure that the mount is safely secured, it is recommended that you separate the device from the mount after installation and press the mount towards windshield for 5 minutes to maintain pressure. Allow 24 hours until the adhesive on the mount has set before connecting the dash cam.

④ The dash cam should be facing forwarding and level with the vehicle and the road. Adjust the camera using the level guiding line marked on the side of the device.



TIP

Adjust the camera to have the horizontal indicator on the dash cam to be level with the vehicle and the road.

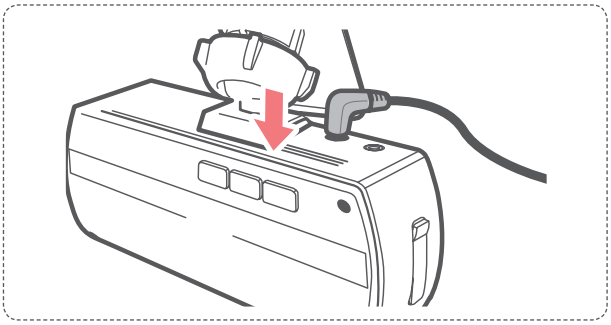


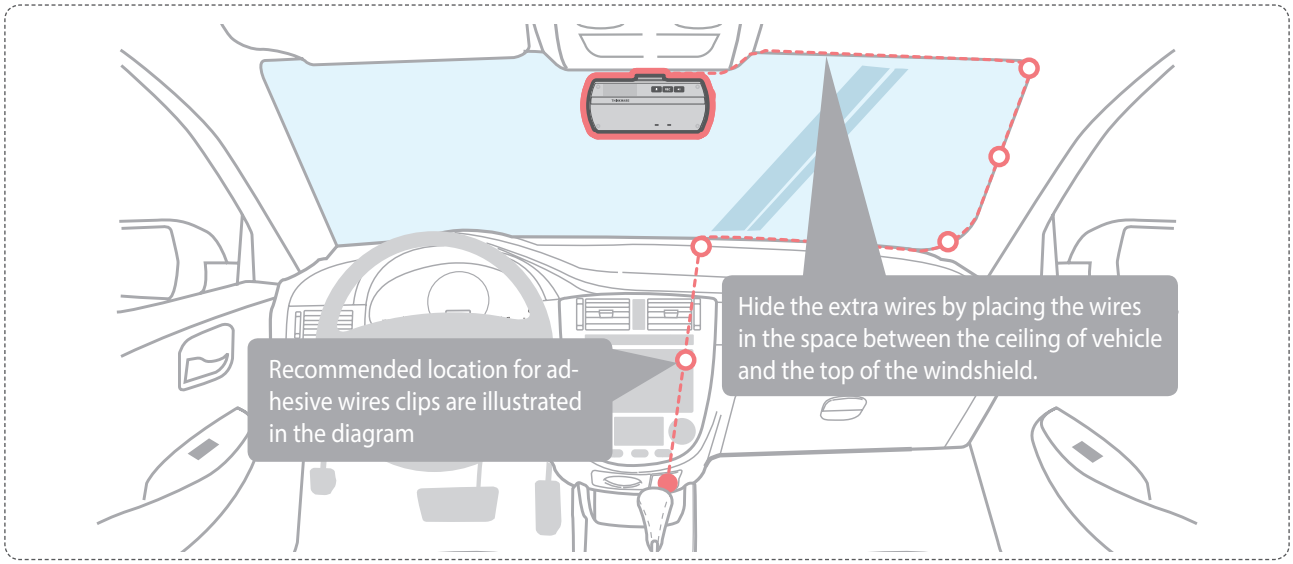
TIP

After installation, run the dash cam to record videos and check the videos using Thinkware Dash Cam Viewer to verify camera position. Adjust the camera angle if necessary.

1-5-3. Connecting to power

① Connect the power cable to DC-IN socket of the device.
② Plug the charger adapter end of the power cable into a 12V DC vehicle power socket.
③ Arrange the wire by using the adhesive cable holder as shown below.




Recommended location for adhesive wires clips are illustrated in the diagram
Hide the extra wires by placing the wires in the space between the ceiling of vehicle and the top of the windshield.

For more information on the power cable routing instruction, please visit Thinkware homepage (http://thinkwaredashcam.com)

Preventing Vehicle Battery Discharge

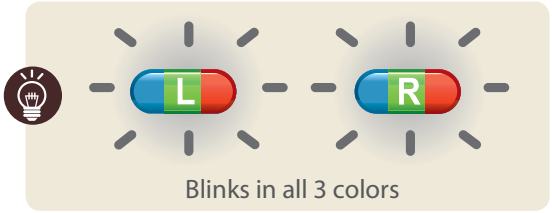
- Depending on the car make and model, the power from the vehicle can be supplied even with the ignition turned off. In this case, the dash cam stays on as continuous mode and does not enter parking surveillance mode which will result in vehicle battery discharge.
- Some vehicles with multiple power sockets might be equipped with at least 1 outlet that does not shut off the power with the ignition. So, test each power outlet to ensure you connect to an outlet that shut off with vehicle engine.

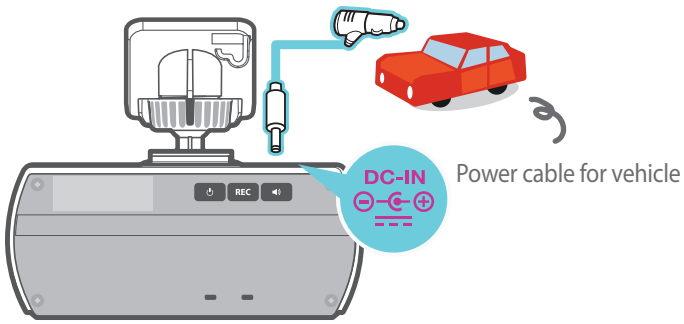
2. Basic Operations

2-1. Turning the Device Power On/Off

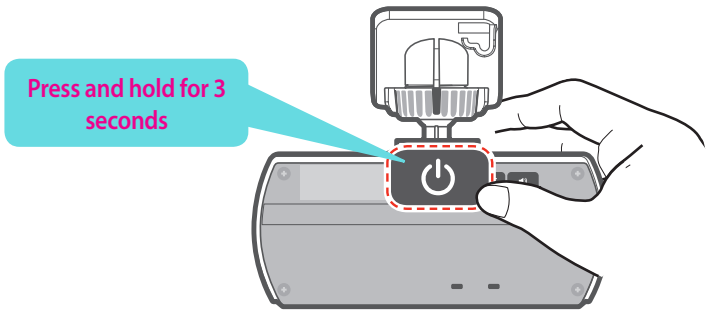
▶ The device will automatically turn on and off with vehicle ignition.

R : Red
G : Green
B : Blue





▶ To manually turn the device on/off, **press and hold the Power button (⏻) for 3 seconds.**



2-2. Date/Time Settings

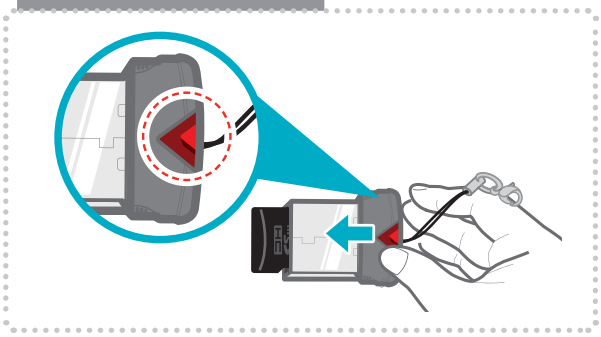
It is strongly recommended that the correct date/time and time zone are set before using the device

① Insert the microSD card into the USB microSD card reader (included in the package) with front side facing up as shown in the illustration.

② Connect the USB microSD card reader to the PC

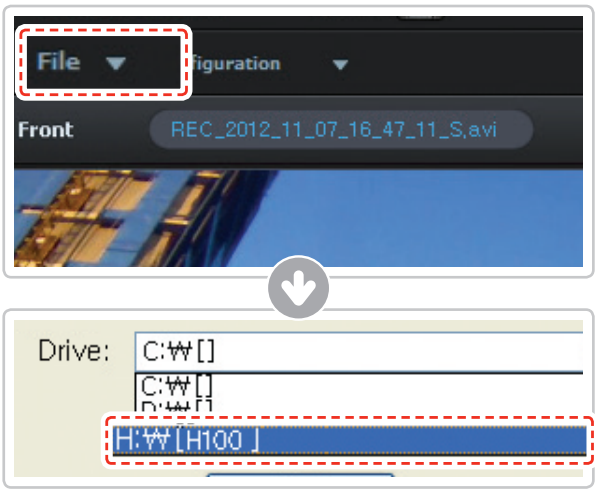
Ensure that the USB card reader is correctly oriented when inserting to USB drive on the PC

Removing microSD card



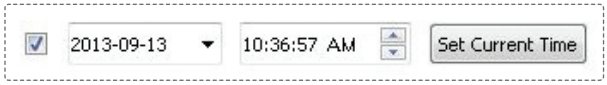
③ Double-click the **Thinkware Dash Cam Viewer setup file** saved in the microSD card and install the program.

④ Double-click the **Thinkware Dash Cam Viewer icon** after installation completes. The Viewer application screen will then appear.



⑤ Click **File** ▼ from menu and select the drive for the portable storage device assigned to the microSD card.

⑥ Select **Additional functions** > **Time zone** and set the date and time of your location (timezone).



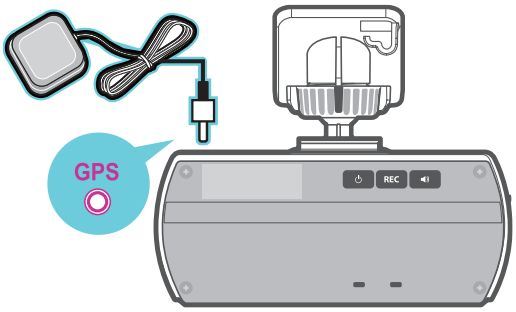
Once the correct time has been set, insert the microSD card immediately back in the dash-cam and start the device to apply the changed settings.

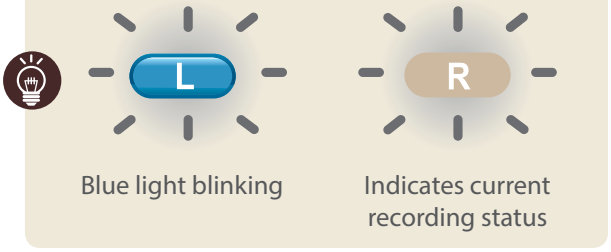
⑦ Insert the microSD card back into the device.
Note that the configuration information is stored in the microSD card so it is strongly recommended to format the memory card using device feature or Thinkware Dash Cam Viewer only. Formatting the memory card using 3rd party applications will permanently delete the user setting and will have to re-initialize to default setting.

2-3. Connecting External GPS Receiver (Optional Accessory)

- External GPS Receiver is available as an optional accessory that can be purchased from Thinkware authorized dealers.
- External GPS Receiver enables recording of vehicle locations in the video file for driving route tracking.

▶ Connect external GPS Receiver to the GPS port of the dash cam.





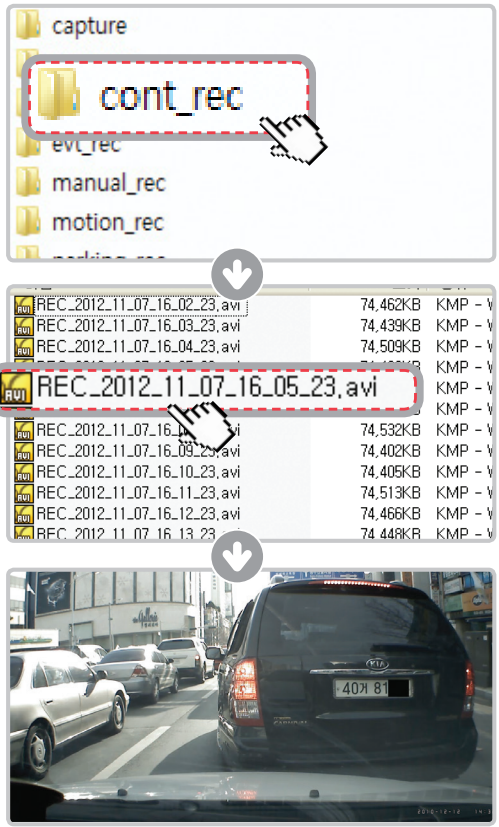
Cautions

- THINKWARE shall NOT be responsible for any problems and/or damages that may occur from not using genuine or authorized parts and accessories. It is strongly recommended that THINKWARE external GPS receiver is used.
- Turn the device off completely before connecting the GPS receiverto avoid damages.

2-4. Recorded Files

▶ Recorded video files are saved in the folder by date and hour in the microSD card.

└ Files are created based on the time when the videos are recorded.



└ As a surveillance product, the dash cam will automatically overwrite oldest file in the memory card once the memory is full. However, event recording and manual recording videos are stored in separate location and will be protected from file overwriting.

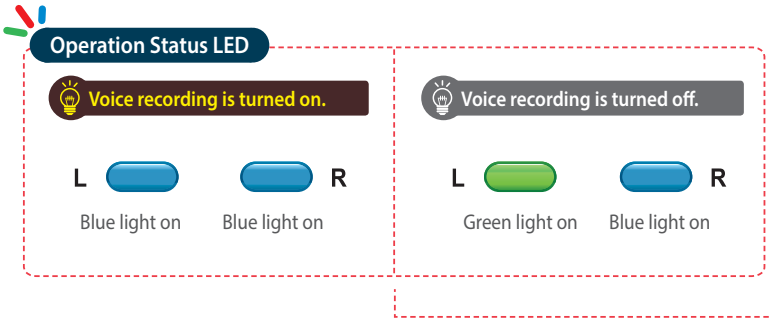
Cautions

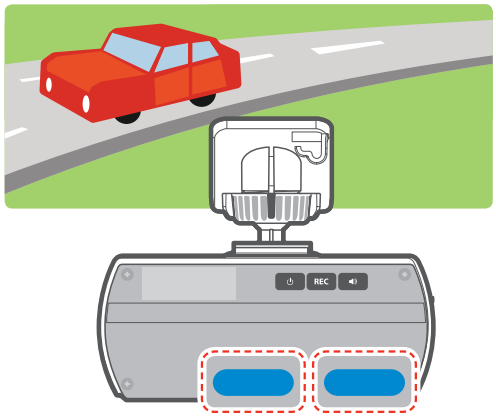
- Do not use microSD as external storage device.
- Do not save or modify saved files in the microSD card.
  This may result in unexpected behavior during operation.

2-5. Recording Videos While Driving

2-5-1. Continuous Recording Mode

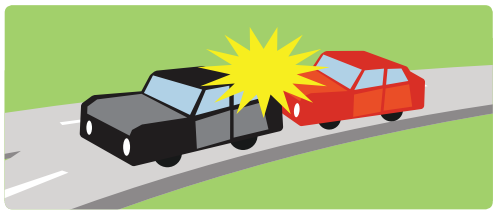
▶ Videos are recorded in 1 minute segments and saves as files in the microSD card under folder named "cont_rec".



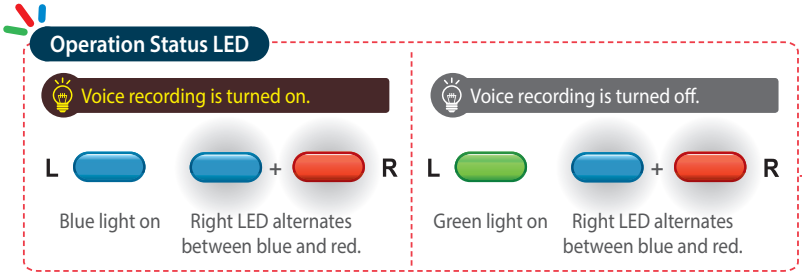


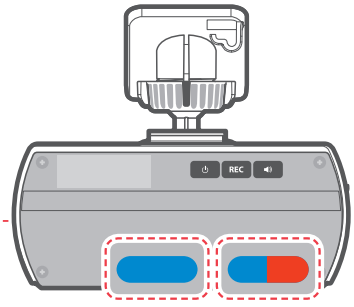
2-5-2. Incident Recording in During Continuous Recording Mode

▶ When the dashcam detects impact, it will immediately store the previous 10 seconds prior to impact and start recording video for next 10 seconds.



▶ This 20 second video will then be saved in a secure location on the microSD card under folder named "evt_rec". Note that the dashcam will detect impact as incident only if the level of impact is greater than the sensitivity of the G-sensor set in the user configuration.





Cautions

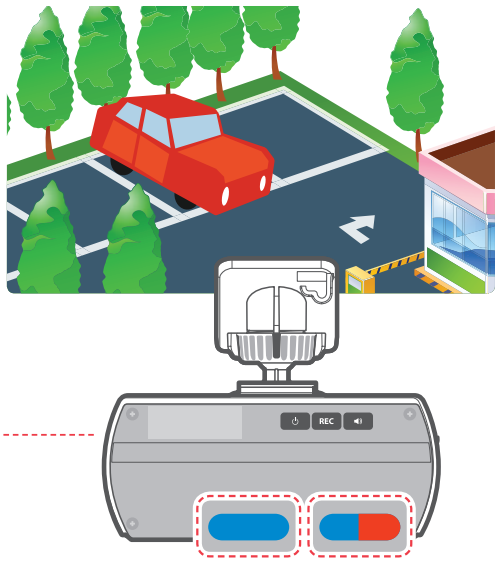
- Driving over speed bump, manhole, or uneven road at high speed can also be detected as incident.
- The device can record up to 1 minute if there are continuous impacts in case of multiple accidents.
- The time for which the device records video before and after impact can vary according to the device setting.

2-6. [Optional] Recording Videos While Parked

This feature is available only when the dashcam has been hardwired direct to the vehicle battery.
Separate purchase is required for the hardwiring cable accessory and installation is required.

2-6-1. Incident Recording

▶ When the dash cam detects impact while parked, it will immediately store the previous 10 seconds prior to impact and start recording video for next 10 seconds which is then saved in a secure location on the microSD card under folder named "parking_rec".



Operation Status LED

Voice recording is turned on.	Voice recording is turned off.
L + R	L + R
Blue light on / Right LED alternates between blue and red.	Green light on / Right LED alternates between blue and red.

Cautions

- The device can record up to 1 minute if there are continuous impacts in case of multiple accidents.
- The time for which the device records video before and after impact can vary according to the device setting.

2-6-2. Motion Detection Recording

The dash cam and optional rear view camera are both equipped with motion detectors which are used to detect motion that initiates video recording while the vehicle is parked.

▶ When the dash cam detects impact while parked, it will immediately store the previous 10 seconds prior to impact and start recording video for next 10 seconds which is then saved in a secure location on the microSD card under folder named "motion_rec".

Operation Status LED

Voice recording is turned on.	Voice recording is turned off.
L + R	L + R
Blue light on / Right LED alternates between green and red.	Green light on / Right LED alternates between green and red.

Cautions

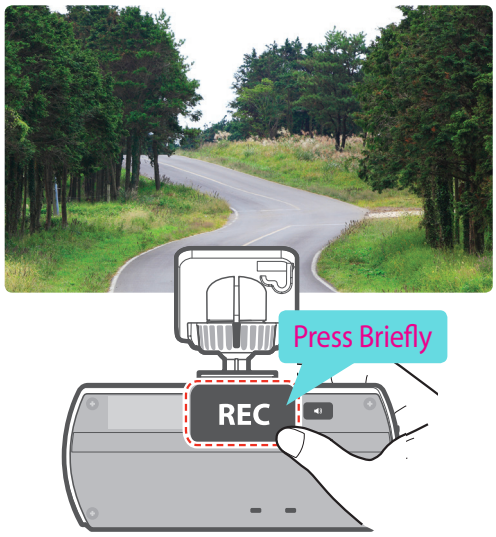
- The device can record upto 1 minute if there are continuous impacts in case of multiple accidents.

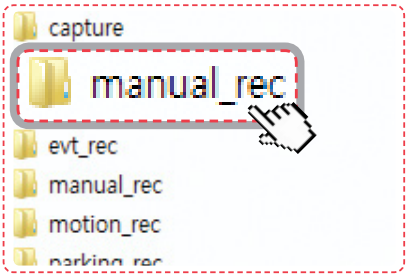
2-7. Manual Recording

In addition to recording accidents, the dash cam allows the user to initiate manual recording mode to capture scenery and/or places while driving. This feature can also be used to save video as witness where the installed vehicle is not directly involved in an accident. Video files saved during manually recording mode are stored in a separate location on the memory card and will be protected from video overwriting in continuous recording mode.

▶ **Briefly press the REC** button to start recording. The device will record video for 1 minute (10 seconds before and 50 seconds after) as of the time when the button is pressed. The recorded video will be saved under the "manual_rec" folder.

▶ Note that when manual recording is initiated, the previous 10 seconds prior to pressing the button will be saved so even if you just missed a scene, you can still capture and safely store the video by initiating manual record within 10 seconds of the event.





Operation Status LED

Voice recording is turned on.		Voice recording is turned off.	
L R		L R	
Blue light on	Blue light blinking	Green light on	Blue light blinking

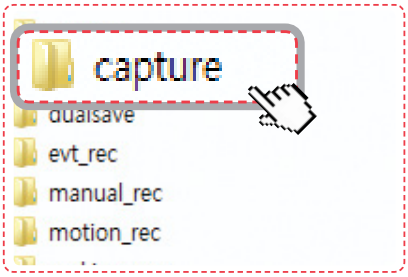
Cautions

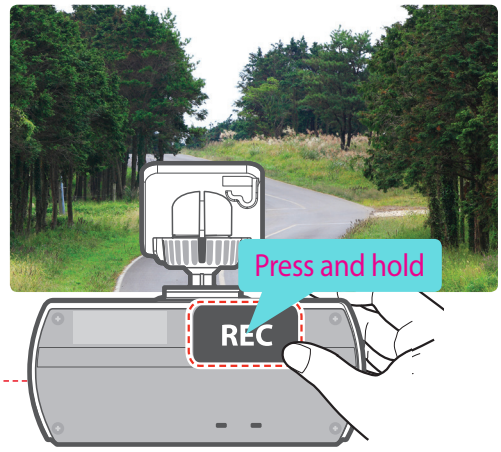
- When the allocated storage for manual recording videos is full, oldest video file will be replaced by the new recorded video.

2-8. Capturing Still Images

▶ **Press and hold REC** button to take a photo. Buzzer will sound to indicate that a picture has been successfully taken.

└ Still images captured are saved in a secure location on the microSD card under folder named "capture".

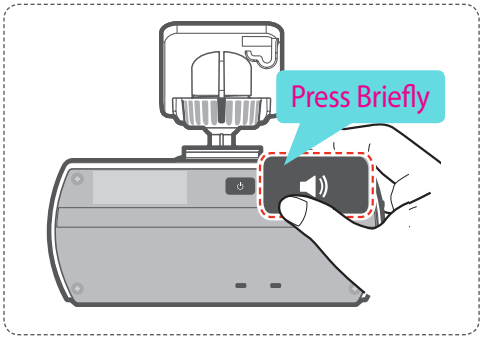




2-9. Setting Audio Options

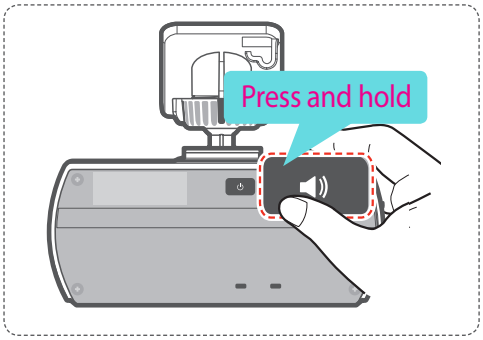
2-9-1. Turning Voice Guidance Function On/Off

▶ **Briefly press the Voice Guidance (** ◀)) **)** button to turn the voice guidance on or off.



2-9-2. Turning Voice Recording function On/Off

▶ **Press and hold the Voice Guidance (** ◀)) **)** button to turn the audio recording on or off.

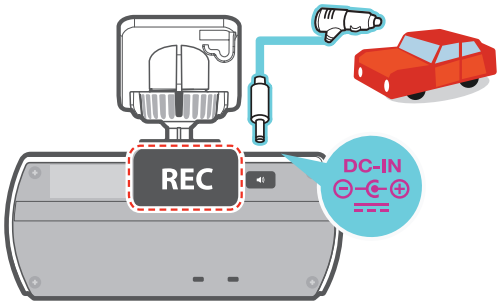


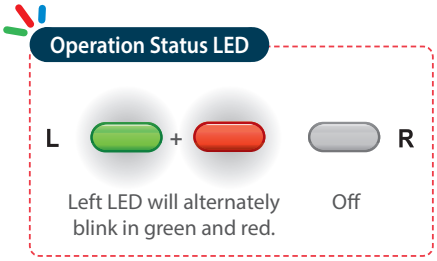
Cautions

- Users do not reserve the right to use the product for purposes other than as specified in this user guide. According to the Personal Information Protection Act and other related regulations, the user/owner may be held liable if the video and/or conversation recorded by the device are distributed without their consent. Thus, special attention should be paid in using this product.

2-10. Formatting MicroSD Card

▶ Disconnect the power cable. While pressing the REC button, connect the power cable to power the device on.





Cautions

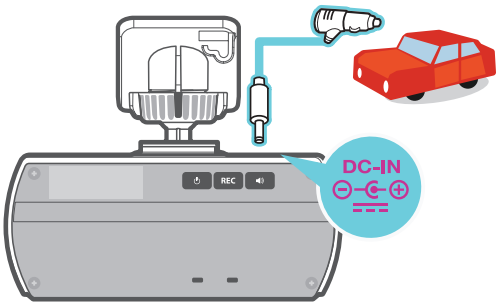
- The microSD card should be formatted every 2 weeks to maximize the lifetime of the memory card.

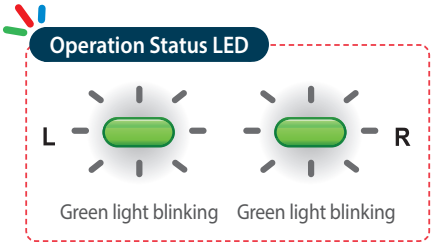
2-11. Upgrading Firmware

▶ The system will automatically be updated if the microSD card contains the firmware upgrade file.

└ The device restarts automatically after the upgrade has been completed.

▶ Make sure your device is always up to date with latest firmware.
Please check back frequently at THINKWARE website (http://thinkwaredashcam.com) for latest firmware updates.





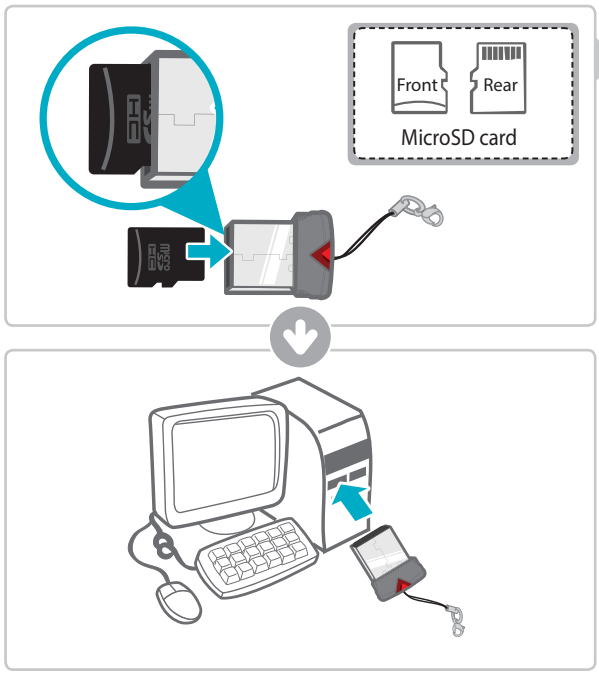
3. PC Application

3-1. Thinkware Dash Cam Viewer

Thinkware Dash Cam Viewer for both Windows/MacOS is provided which can be used to watch videos recorded with the dash cam. The video files recorded by the dash cam are in one minute segments and the PC viewer allows user to watch the segments in single continuous video.

The setup file for the Thinkware Dash Cam Viewer is included in the microSD card in the package.
Please check THINKWARE homepage (http://thinkwaredashcam.com) for latest Dash Cam Viewer application.

3-1-1. Thinkware Dash Cam PC Viewer Software

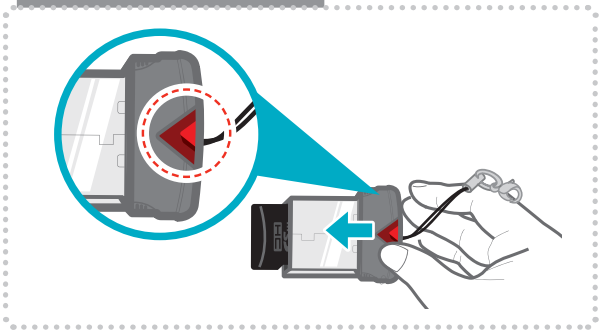


① Insert the microSD card into the USB microSD card reader (included in the package) with front side facing up as shown in the illustration.

② Connect the USB microSD card reader to the PC.

Ensure that the USB card reader is correctly oriented when inserting to USB drive on the PC

Removing microSD card



3-1-2. Installing Thinkware Dash Cam Viewer

Windows

setup
Setup - THINKWARE DASHCAM PC VIEWER
THINKWARE DASH CAM PC Viewer
DASHCAM PC VIEWER is successfully installed.
Setup installed DASHCAM PC VIEWER successfully. To launch it, click the shortcut.
To complete setup, click Finish.
Finish
Thinkware Dashcam Viewer

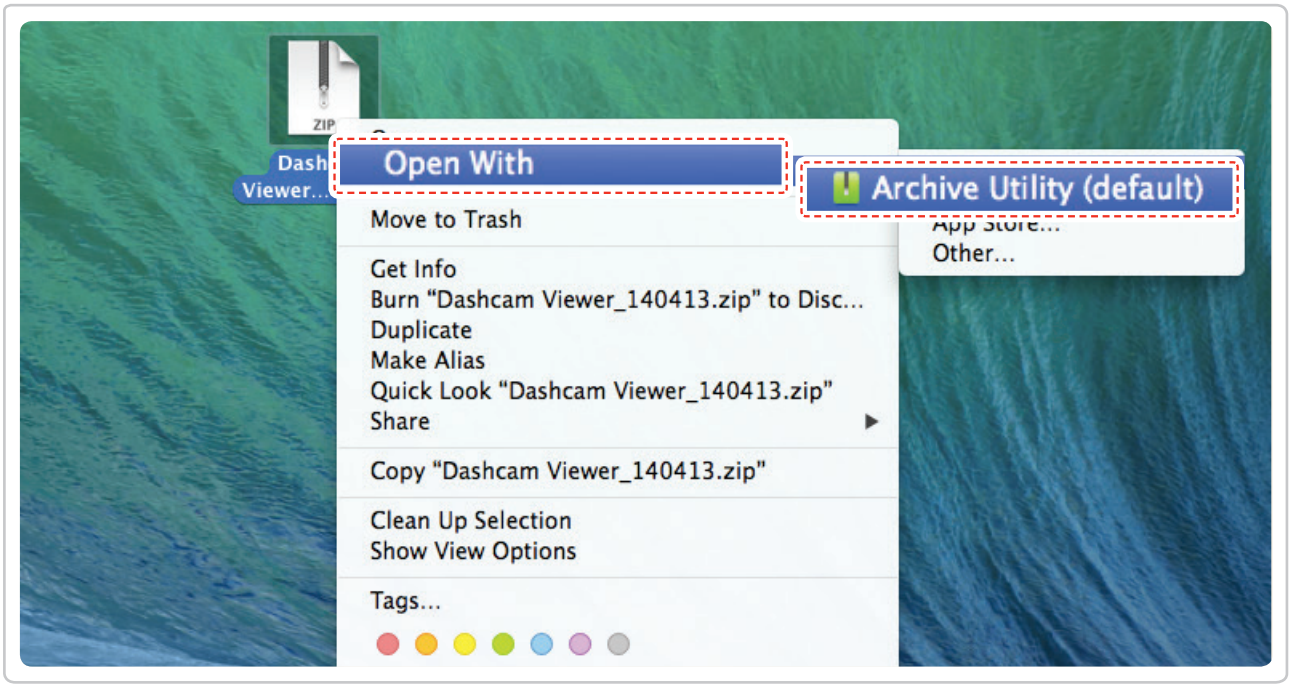
① Double-click the Thinkware Dash Cam Viewer setup file saved in the microSD card to initiate program installation.

② Double-click the application icon once PC Viewer installation completes and the application main screen will then appear.

MAC

① Move the file named "Dashcam Viewer.zip" stored in the microSD card to the desktop.

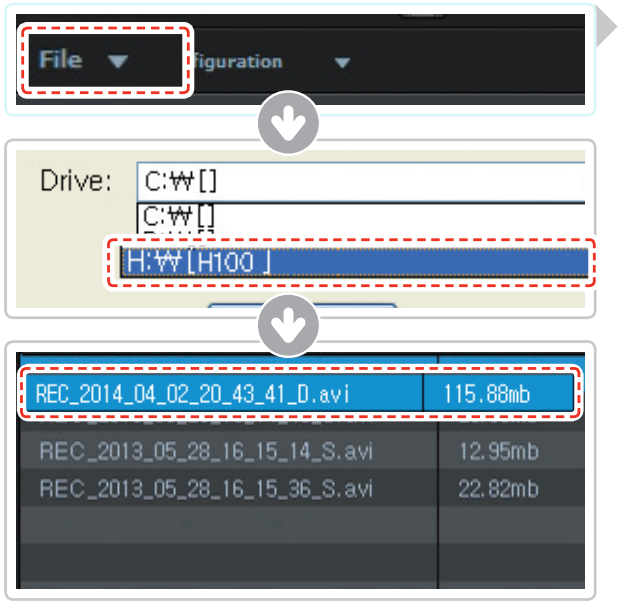
② Right click on the mouse and select "Open With" > "Archive Utility" to launch the Thinkware Dash cam viewer application.



Cautions

- Mac OS X v10.6.6 or higher required for PC Viewer installation

3-1-3. Select the Device Drive for H100



① Click **File** ▼ from menu and select the drive for the portable storage drive for the connected microSD card.

② Select any file from the list to load entire video playlist in the memory card.

Cautions

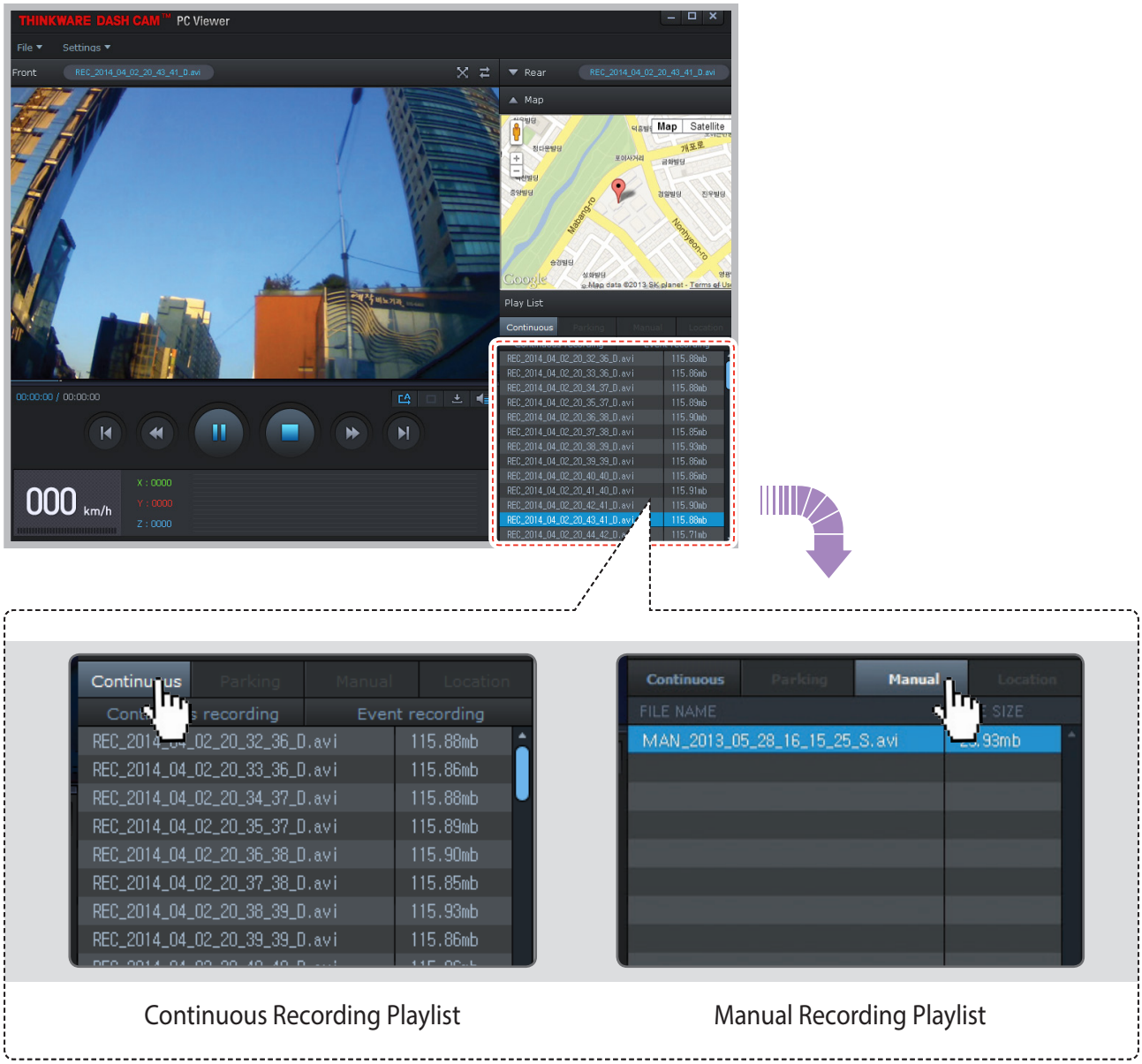
- The drive for microSD card will not open if it has not previously been initialized in the dash cam.
- Record at least 1 video clip with the microSD card in the dash cam before being able to access full menu on Thinkware Dash Cam Viewer software.

3-1-4. Thinkware Dash Cam Viewer Overview

No.	Name	Description
	Play Previous	Plays the previous file before the current file
	Rewind by 10 Sec	Rewinds the current file being played by 10 seconds (If selected, it continues to rewind by 10 seconds)
	Play/Pause	Plays the recorded file / temporarily pauses playback
	Stop	Stops the file being played. The playback status resets to the starting point of the video.
	Fast-forward by 10 Sec	Fast-forwards the current file being played by 10 seconds (If selected, it continues to fast-forward by 10 seconds)
	Play Next	Plays the next file after the current file
	Auto Play	Automatically loops the video back to beginning once the end has reached
	Zoom	Sets the video expansion ratio (0.5x / 1.0x / 1.5x / 2.0x)
	Screen Setting	Sets brightness/speed of the video
	Save	Saves the video in play
	Volume	Sets the volume of the playback

3-1-5. View Video Playlist

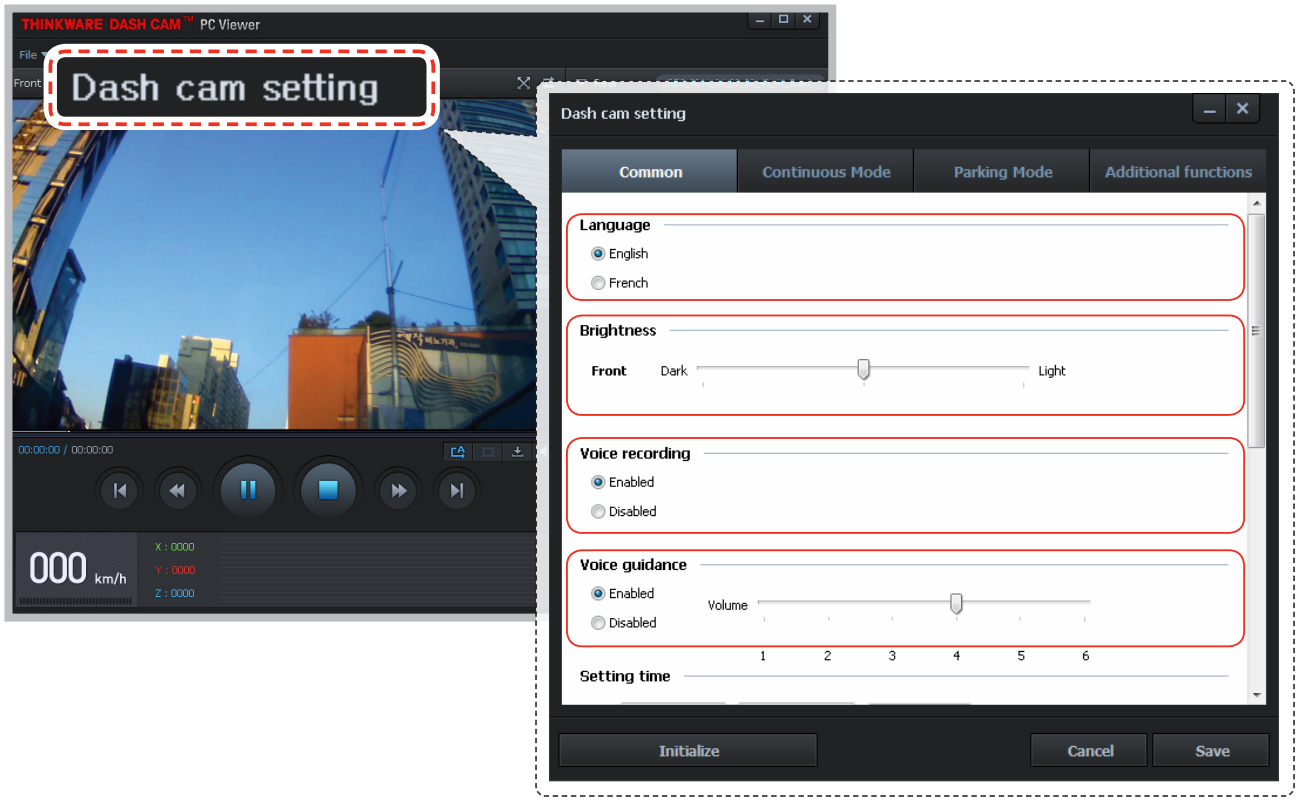
▶ Select appropriate folder (Continuous Recording, Incident Recording, Manual Recording, Parking Motion, Parking Incident) to see the playlist for each recording mode.



Continuous Recording Playlist

Manual Recording Playlist

3-1-6. Dash Cam Setting > Common



▶ **Language:** Sets the language for the device.

▶ **Brightness**: Sets the brightness of the front and rear view camera.

▶ **Voice recording**: Enable or disable audio recording.

- **Enabled (default)**
- Disabled

▶ **Voice guidance**: Enable or disable voice guidance.

- **Enabled (default)**
- Disabled

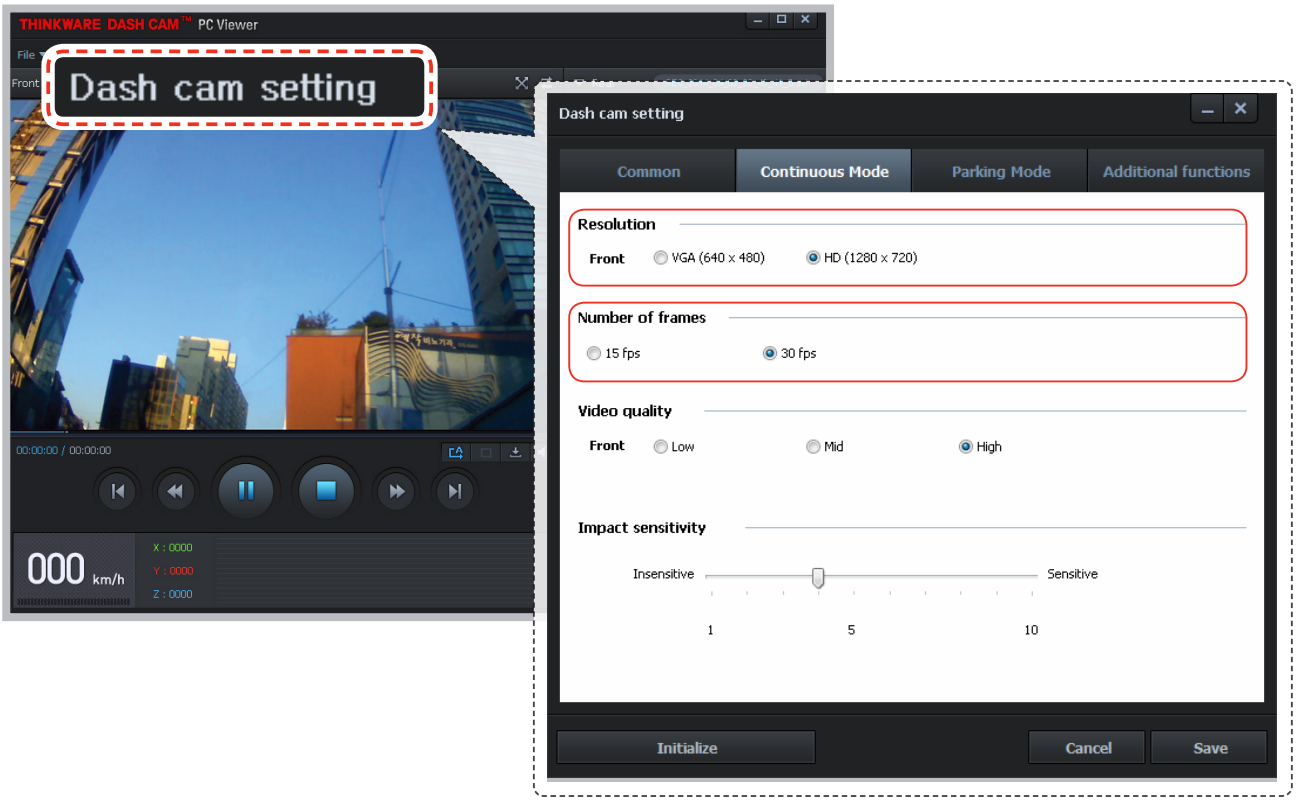
▶ **Setting time/Time zone** : Sets date and time for your location.

▶ **Daylight Saving Time** : Sets the daylight saving time (DST) on/off.

▶ **Video date format** : Sets the date format of the recorded video files.

▶ **Speed unit** : Sets unit for the vehicle speed (Km/h or mph).

3-1-7. Dash Cam Setting > Continuous Recording Mode - 1



▶ **Resolution**: Sets resolution of recorded videos in the Continuous Recording Mode.

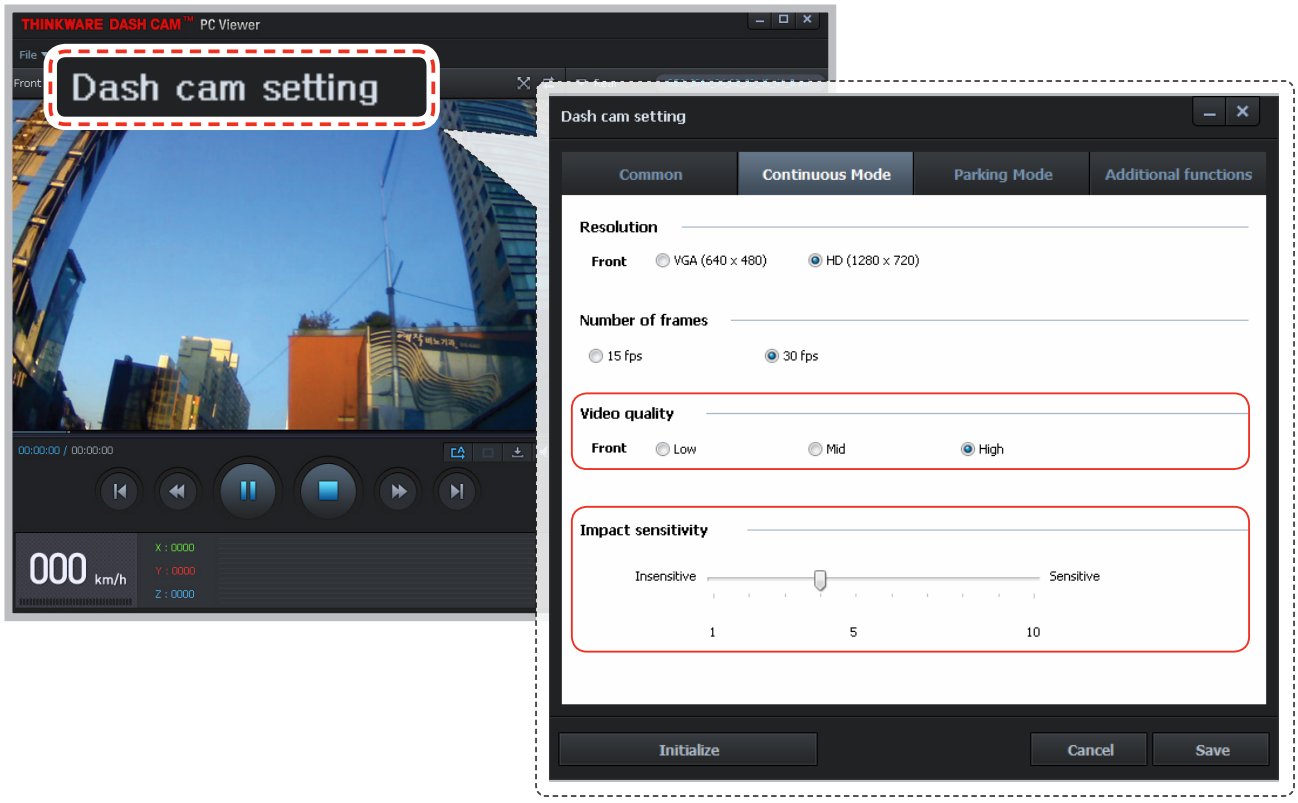
Front

- VGA(640X480)
- **HD(1280X720) (default)**

▶ **Number of frames**: Sets the number of frames in Continuous Recording Mode.

- 15 fps
- **30 fps (default)**

3-1-8. Dash Cam Setting > Continuous Recording Mode - 2



▶ **Video quality**: Sets the video quality level. The video file sizes will vary according to the configured quality. As the quality of the video increases, the size of the videos will also increase resulting in reduced total recording capacity.

- Low (The video file size will decrease)
- Normal
- **High (The video file size will increase)**

▶ **Impact sensitivity**: Set impact sensitivity from Level 1 to 10 (1 is least sensitive/ 10 is most sensitive).

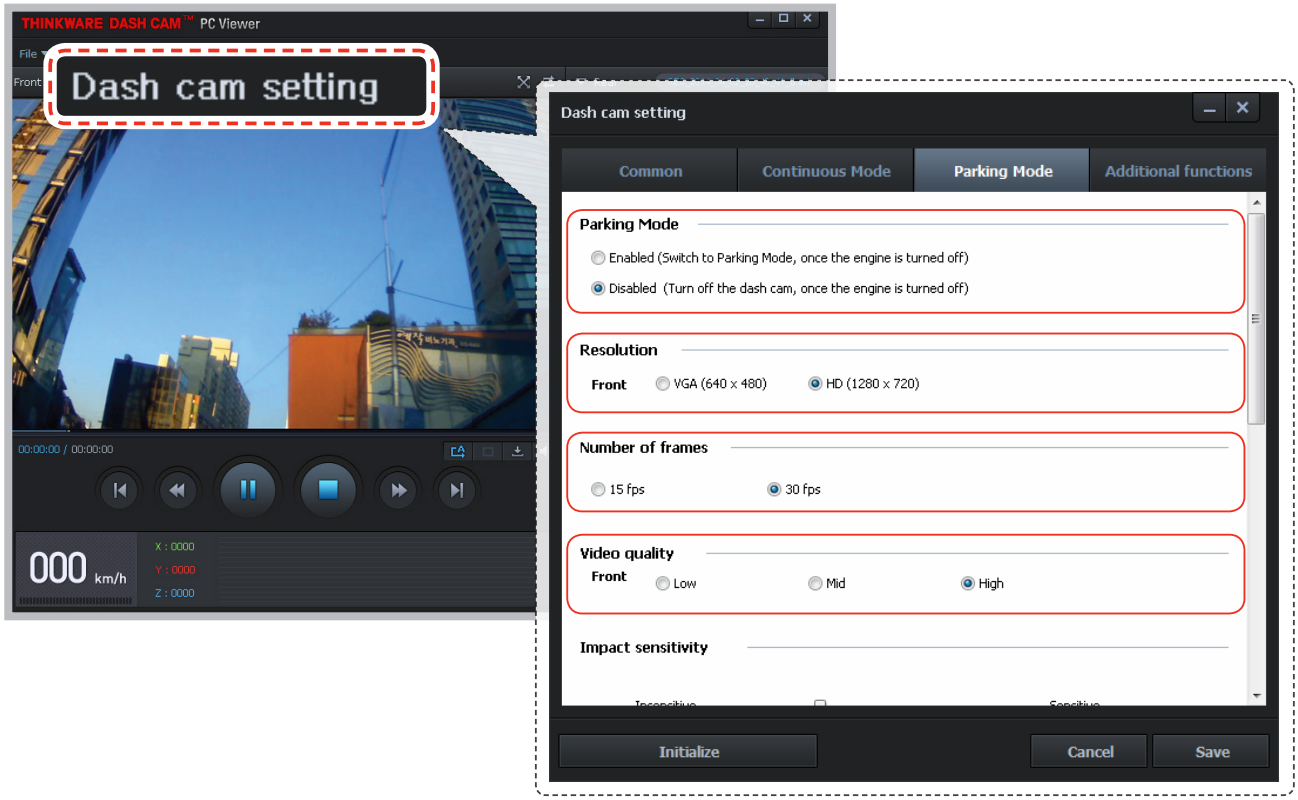
Cautions

○ Tip on sensitivity

It is recommended that you set the sensitivity according to vehicle type. High sensitivity setting is recommended for cars with softer ride such as luxury sedans and low sensitivity setting is recommended for cars such as performance cars, trucks, or SUVs which tends to have stiffer suspension settings.

3-1-9. Dash Cam Setting > Parking Surveillance Mode - 1

This feature is available only when the dash cam has been hardwired direct to the vehicle battery. Separate purchase is required for the hardwiring cable accessory and installation is required.



▶ **Parking Mode:** Dash cam automatically changes recording mode to parking surveillance when vehicle ignition is turned off.

- Enabled
- **Disabled (default)**

▶ **Resolution**: Sets resolution of recorded videos in the Parking Surveillance Mode.

Front

- VGA(640X480)
- **HD(1280X720) (default)**

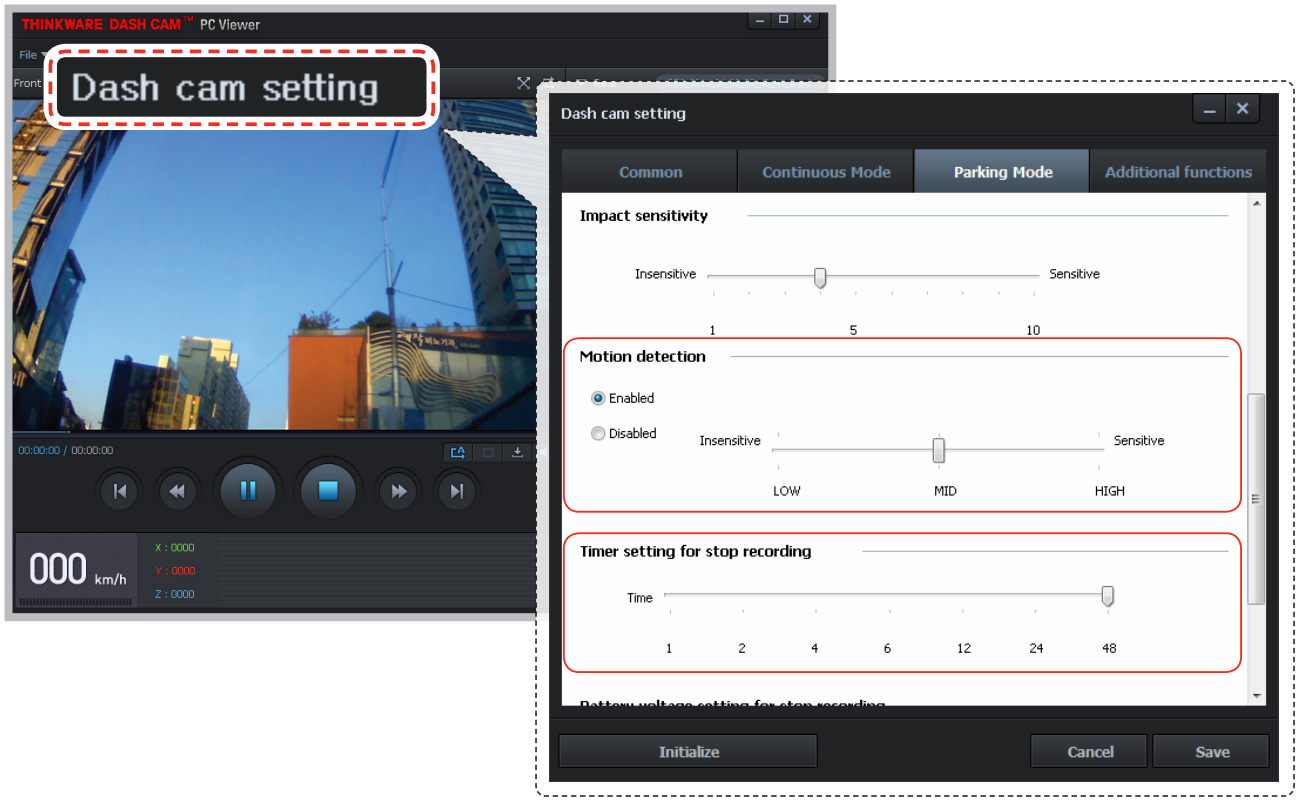
▶ **Number of frames**: Sets number of frames for Parking Surveillance Mode.

- 15 fps
- **30 fps (default)**

▶ **Video quality**: Sets the video quality level. The video file sizes will vary according to the configured quality. As the quality of the video increases, the size of the videos will also increase resulting in reduced total recording capacity.

- Low (The video file size will decrease)
- Normal
- **High (The video file size will increase)**

3-1-10. Dash Cam Setting > Parking Surveillance Mode - 2



▶ **Impact sensitivity**: Sets the impact sensitivity level in parking mode.

▶ **Motion detection**: Sets motion detection sensitivity from Levels 1 to 10.

- **Enabled (default)**
- Disabled

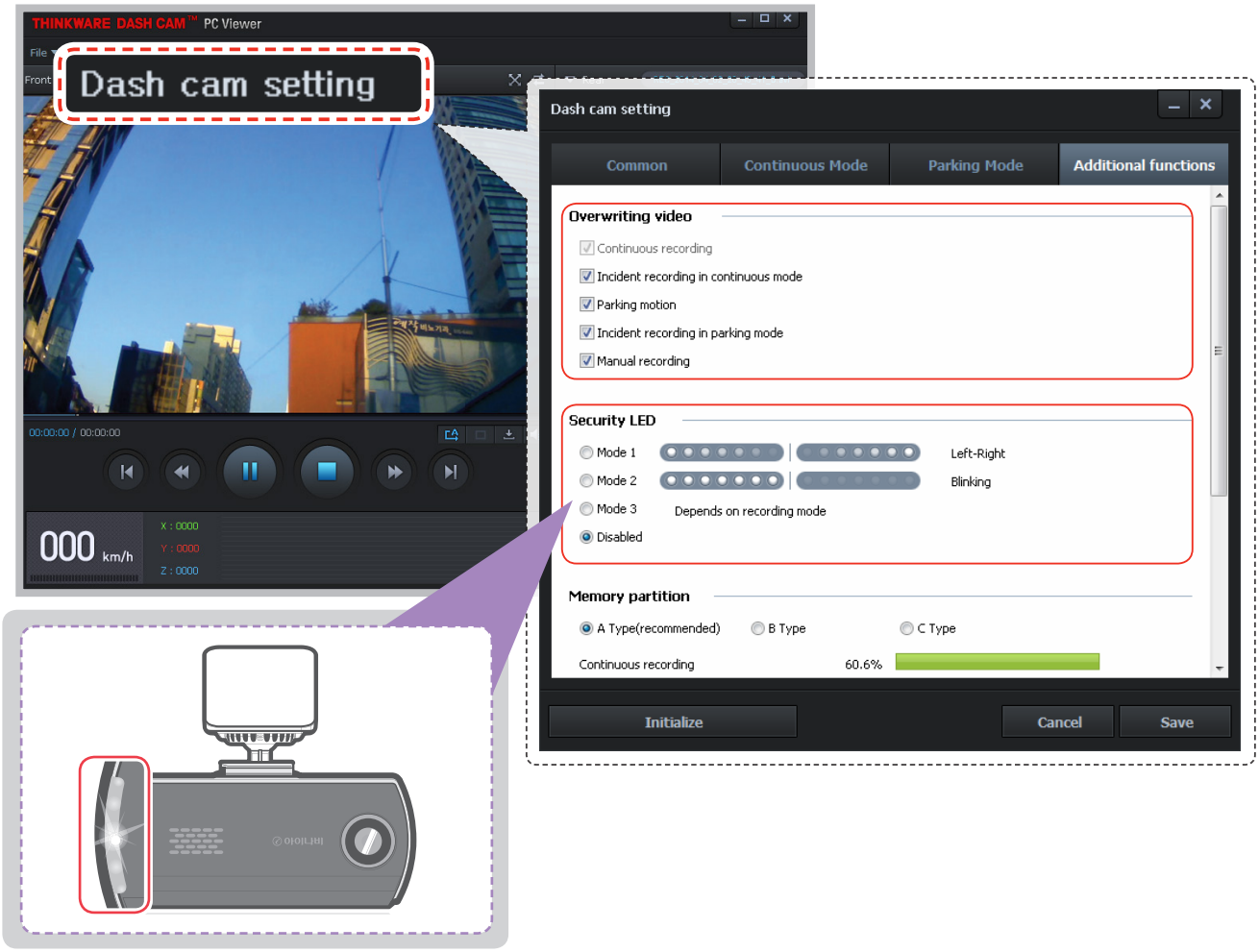
▶ **Timer Setting for recording**: Dash cam can be configured to stop recording after preset time period during parking surveillance mode in order to prevent the vehicle battery from being discharged.

- Time Range: 1~48 hours (7 levels)

▶ **Battery voltage setting for stop recording**: Dash cam can be configured to automatically shut down when battery voltage drops below preset value during parking surveillance mode in order to prevent the vehicle battery from being discharged.

- Vehicle voltage 12V - 11.6V-12.3V (changeable by 0.1V)
- Vehicle voltage 24V - 23.2V-24.6V (changeable by 0.2V)

3-1-11. Dash Cam Setting > Additional Functions - 1

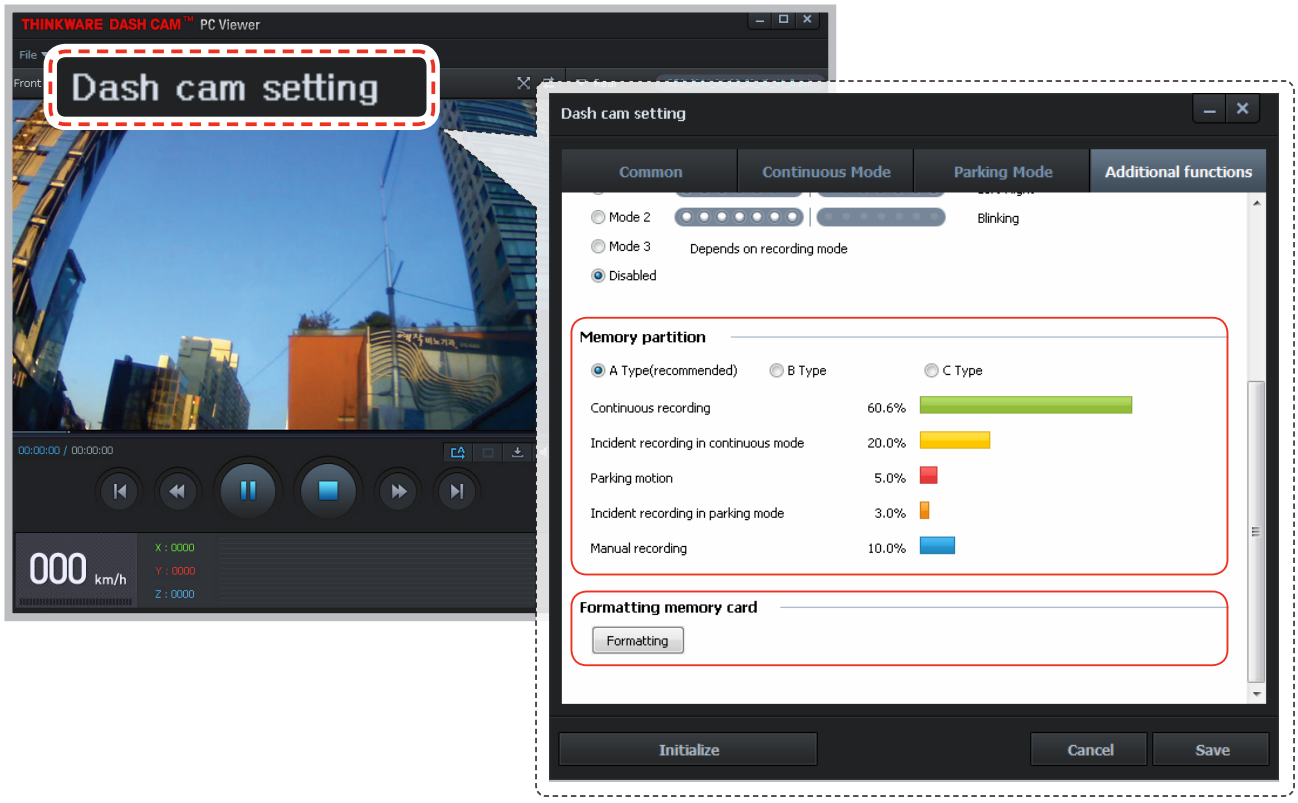


▶ **Overwriting video:** The oldest file is deleted if the total size of the recorded videos in the checked folder exceeds the storage capacity of the memory card.

▶ **Security LED**: Sets the pattern of the Security LED which is used to visually alert other drivers that the vehicle is equipped with functional dash cam.

- Mode 1 (moving): LED moves from top to bottom and vice versa.
- Mode 2 (blinking): The entire LED blinks every 0.5 seconds.
- Mode 3 (expanding): LED expands and fades out to top/bottom starting from center.
- Not in Use: Security LED is turned off (default).

3-1-12. Dash Cam Setting > Additional Functions - 2



▶ **Memory partition**: Sets how storage space on the memory card will be allotted for each recording mode (preconfigured type A, B, and C).

Cautions

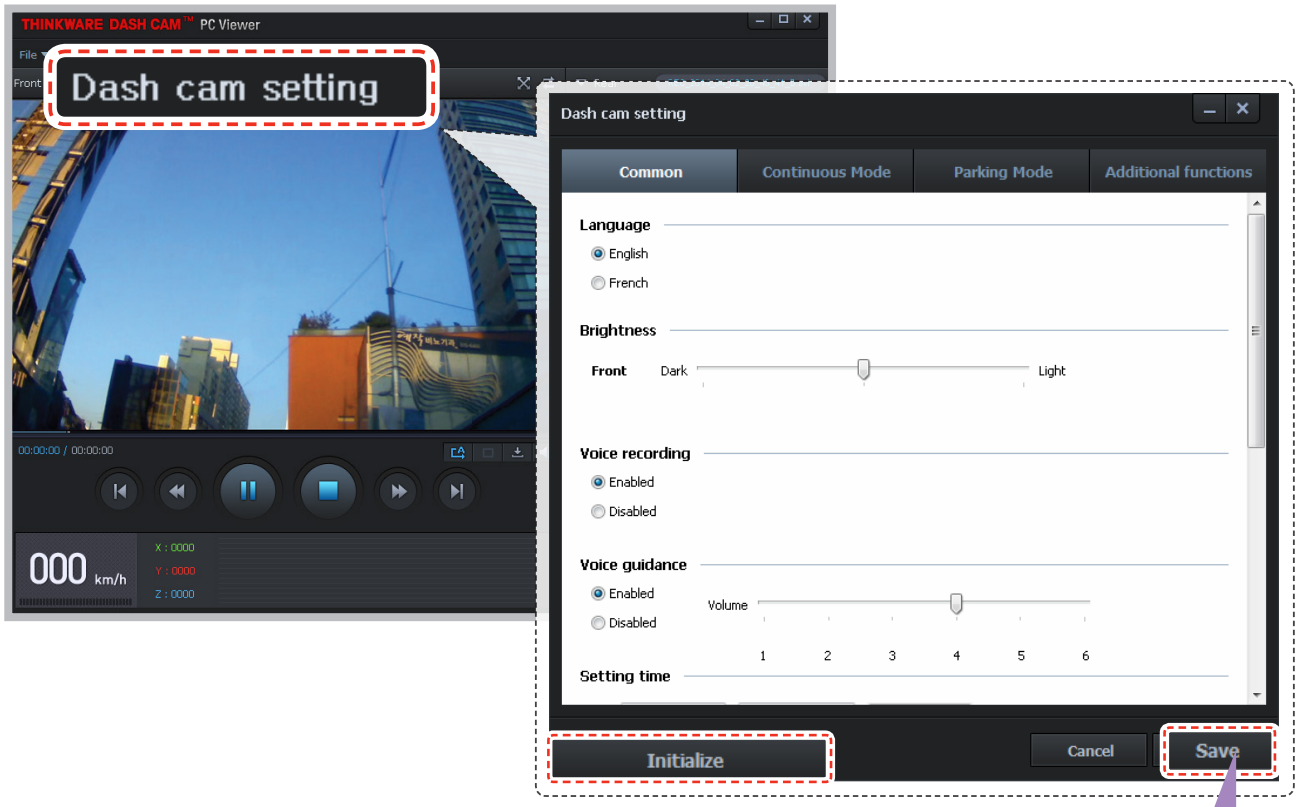
- The set storage capacity may be different from the actual capacity by approximately 30 to 40MB.

▶ **Formatting memory card**: Formats the microSD card. Note that dash cam setting is restored after formatting the memory card.

Cautions

- It is recommended that you back up data before formatting the memory card.
- Once you format the memory card, all data will be deleted and cannot be restored.
- The method for formatting a microSD card might vary depending on the computer operating system.

3-1-13. Dash Cam Setting > Initialize Settings



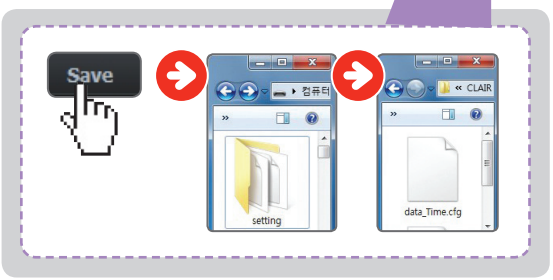
▶ **Initialize**: Click Initialize button to restore back to factory settings.

▶ **Apply and Save Settings**

① Click **Save** after changing settings to store the configuration information on the microSD card.

② The setting file is stored on the microSD card as setup.cfg under Setting folder.

③ Insert the microSD card into the dash cam and turn on the device to apply the settings.



Cautions

- Thinkware Dash Cam Viewerrequires setup.cfg file on the microSD card in order to recognize the external drive as dash cam memory device. If setup.cfg is deleted or corrupted, PC Viewerwill not be able to read videos or device settings on the microSD card. In such case, insert the microSD card back in the dash cam and power on the device to reinitialize which will create a setup.cfg file with default settings.

4. Specifications

4-1. Specifications

The specifications of this product may change without prior notice for product improvements.

Item	Standard	Note
Model	H100	
Size/weight	108.5 x 45.2 x 26mm / 75g 4.3 x 1.8 x 1.0 inches / 0.17 lbs	
Capacity	microSD card	8GB/16GB Class 6 or higher
Recording mode	Continuous Recording Mode	Records in 1 minute segments
	Incident Recording Mode	
	Manual Recording Mode	
	Parking Surveillance Mode	Optional hardwiring cable and installation are required for continuous supply of power when vehicle ignition is off.
	Capturing Still Image	
	Audio Recording	
Video quality	Choose from one of three different modes (low/mid/high)	Total recording time varies depending on the partition type.
Camera	2.0 Megapixel, 1/3.2" CMOS	
View angle	Approximately 140° (diagonally)	
Video	HD (1280 x 720/H.264/extension AVI)	
Frame rate	1 channel (Front view) : up to 30 fps	
Audio	PCM (Pulse code modulation)	
Acceleration sensor	3-axis acceleration sensor (3D, ±4G)	Adjustable impact sensitivity (10 levels)
GPS	External GPS Receiver	Optional accessory that requires separate purchase
Input power source	DC 12/24V	
Current consumption	3.1W (Max)	
Auxiliary power unit	Super Capacitor	
Security LED	Panoramic white LED	
Notification LED	3-color LED	2 rear LEDs
Warning sound	Embedded speaker	Voice (buzzer sound) guidance
Operation/ Storage Temperature	-20°C to 65°C / -40°C to 80°C -4°F to 149°F / -40°F to 176°F	
Connection Interface	External GPS	